Kentucky Department for Environmental Protection Division of Waste Management Underground Storage Tank Branch 300 Sower Boulevard – Frankfort KY 40601 (502) 564-5981 FOR OFFICIAL USE ONLY – DO NOT WRITE IN THIS SPACE

DRAFT

UST Galvanic Cathodic Protection Evaluation

Date Form Completed	1 1						
1. UST Facility Information							
Agency Interest Number (AI)							
UST Facility Name							
	Street Address:						
UST Facility Physical Address	City:	County: Zip Code:				-	
UST Facility Physical Phone	Phone: () - <i>P</i>	Alternate Phone: () -			
	2	2. UST System Own	er Information				
UST System Owner Name							
UST System Owner Contact	Phone: () - A	Alternate Phone: () -			
Information	Email:						
		3. Tester In	formation				
Name of Person Performing Test							
Certification / License Number							
Certification Type (mark all that apply)	□ NACE □ STI □ Other (specify):						
Contact Information	Phone: () - Email:						
Company Name							
Commons Mailing Address	Street Address:						
Company Mailing Address	City:	S	State:		Zip Code:	-	
	4. Cath	odic Protection Teste	er Evaluation (mar	k only one)			
Date of Evaluation	1 1		Next Test Date D	ue By	1 1		
Reason for Evaluation (mark only one)	☐ New Install (within 180 days) ☐ Reevaluation following repair / modification (within 180 days)						
Reason for Evaluation (mark only one)	☐ Routine (every 36 months) ☐ Reevaluation following a failure (within 30 days)						
If the remote and the local potential readings do not both indicate the same test result on all protected structure (both pass or both fail), the cathodic protection system shall be reevaluate and/or retested by a corrosion expert. Complete Section 6.							
All protected structures at this UST facility pass the cathodic protection system evaluation and it is judged that adequate cathodic protection has been provided to the UST system. Complete Section 7.							
One or more protected structure at this UST facility fail the cathodic protection system evaluation and it is judged that adequate cathodic protection has not been provided to the UST system. Complete Section 8.							
I certify that the cathodic protection evaluation was performed in accordance with the appropriate code of practice. I further certify that all the information provided on this document is true, accurate, and complete.							
	Printed						
Cathodic Protection Tester	Signature		Date			1 1	
Certification					4: 5-1	, ,	
	License #			License Expi	ration Date	1 1	

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5. Corrosion Expert Evaluation (mark only one)								
Date of E	Evaluation		/ /					
		☐ Inconclusive result from cathodic protection tester evaluation;						
Reason f	or Evaluation (r	nark only one)	☐ Repairs	to galvanized or unco	oated steel piping are co	onducted; or		
☐ Supplemental anodes are added to the UST system without following an acceptable industry code.						industry code.		
All protect cathodic p	All protected structures at this UST facility pass the cathodic protection system evaluation and it is judged that adequate cathodic protection has been provided to the UST system. Complete Section 7.							Pass
One or m	ore protected str	ucture at this U	IST facility fa	all the cathodic prote	ction system evaluatio	n and it is judged th	^{lat} □ F	ail
•	•	'		e UST system. Comp				
1		•		performed in accor e, and complete.	dance with the appro	priate code of pract	ice. I furt	ther certify that all the
			Printed				Doto	1 1
Corrosio	n Expert Certific	cation	Signature		Date			
			License #		License Expiration			1 1
			6. A	pplicable Evaluati	on Criteria (mark all	that apply)		
	to-soil potential m				CuSO ₄ reference elect	rode with the protecti	ve 🗆 8	50 On
				with respect to a Cu/ stems where anodes	CuSO ₄ reference elect can be disconnected.	rode with the protecti	^{ve} □8	50 Off
Structure disconnec		least 100 mV	of cathodic p	polarization. Applicab	le to galvanic systems	where anodes can	^{oe} □1	00 mV Polarization
				7. Required A	ctions (mark only one)		
	Cathodic protection is adequate. No further action is necessary at this time. Next evaluation due 3 years from the date of this evaluation or if another reason listed in Section 5 (Reason for Evaluation) occurs.							
Cathodic achieved.	Cathodic protection may not be adequate. Reevaluate during the next 90 days to determine if passing results can be							Reevaluation
Cathodic p	protection is not a	dequate. A repa	r or modificat	ion is necessary as s	oon as practical, but wi	thin the next 90 days.	□R	Repair & Reevaluation
			8	. Description of	Evaluated UST Sys	tem		
Tank	Capacity (gal)	Produ	ct	Tanks	Pipir	ıg	STP	Dispensers
1								
2								
3								
4								
5								
6								
9. Description of Cathodic Protection System Repairs and/or Modifications								
Provide detailed information about all modifications or repairs made to the cathodic protection system. Attach a detailed drawing of the UST facility and cathodic protection systems. Sufficient detail shall be given in order to clearly indicate where the reference electrode was placed for each structure-to-soil potential that is recorded on the survey forms. At a minimum indicate the following:								
a) Tanks b) Piping c) Dispensers d) Buildings and Streets e) Anodes and Wires f) Location of CP Test Stations g) Each reference electrode placement (indicated by a code: 1, 2, T-1, T-2) corresponding with the appropriate line number in Section 12.								
Supplemental anodes for metallic pipe (attach corrosion expert's design or documentation that industry standard was followed).								
☐ Supplemental anodes for a sti-P ^{3®} tank (attach corrosion expert's design or documentation that industry standard was followed).								
☐ Galvan	nically protected ta	inks/piping not e	lectrically iso	ated (explain in "Rem	narks/Other" below).			
Remarks/Other:								

10. Galvanic (Sacrificial Anode) Cathodic Protection System Continuity Survey Use this section to document measurements of continuity on UST systems that are protected by galvanic cathodic protection systems.							
Structure "A" ¹	Structure "B" ²	Structure "A" Fixed Remote Voltage ³	Structure "B" Fixed Remote Voltage⁴	Point-to-Point Fixed Remote Voltage⁵	Isolated / Continuous / Inconclusive ⁶		
		Exam	nples	<u> </u>			
Premium Tank Bottom	Premium Tank Fill Riser	-921 mV	-915 mV		Inconclusive		
Premium Tank Bottom	Premium Tank Fill Riser			17 mV	Isolated		
		II	T		ı		
Comments							

Describe the cathodically protected structure being demonstrated as isolated from unprotected structures (e.g. premium tank bottom).

Describe the unprotected structure being demonstrated as isolated from the protected structure (e.g. premium tank fill riser).

Record the measured structure-to-soil potential of the cathodically protected structure "A" in millivolts (e.g. -921 mV).

Record the measured structure-to-soil potential of the unprotected structure "B" in millivolts (e.g. -915 mV).

Record the voltage observed between the protected and the unprotected structures when conducting point-to-point testing (e.g. 17 mV).

Document whether the test (fixed cell and/or point-to-point) indicated the protected structure was isolated, continuous or inconclusive.

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11. Galvanic (Sacrificial Anode) Cathodic Protection System Survey Use this section to document a survey of a galvanic cathodic protection system by obtaining structure-to-soil potential measurements.									
Location Code ⁷	Structure ⁸	Contact Point ⁹	Local Reference Cell Placement ¹⁰	Local Voltage ¹¹	Remote Voltage ¹²	Pass / Fail / Inconclusive ¹³			
Examples									
Example 1	Plus Tank	Tank Bottom	Plus Tank STP Manway	-928 mV	-810 mV	Inconclusive			
Example 2	Plus Piping	Dispenser 5/6	Under Dispenser 5/6	-890 mV	-885 mV	Pass			
			I						
Comments									
If you have que facility records	estions on how to fill out the please visit								

⁷ Designate numerically or by code on the site drawing each local reference electrode placement (e.g. 1, 2, 3..., T-1, T-2..., P-1, P-2...etc.).

⁹ Describe the structure that is being tested (e.g. plus tank, premium piping, flex connector, etc.).

¹⁰ Describe where contact with the structure that is being tested is made (e.g. plus tank @ test lead, diesel piping @ dispenser 5/6, etc.)

¹⁰ Describe the exact location where the reference electrode is placed for each "local" measurement (e.g. soil @ plus tank STP, soil @ dispenser 5/6, etc.).

¹¹ Record the structure-to-soil potential measured with the reference electrode place "local" in millivolts (e.g. -865 mV).

¹² Recorded the structure-to-soil potential measured with the reference electrode placed "remote" (copy voltage that was obtained during continuity survey).

¹³ Indicate whether the tested structure passed or failed the -850 mV "on" criterion based on the interpretation of the test data.